Rec'd PCT/PTO 19 AUG 2004

TENT COOPERATION TREAT **PCT**

REC'D 19 DEC 2003

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applic	cant's o	r agent	's file reference	FOR FURTHER ACT	ION	See Notification	n of Transmittal of Internat amination Report (Form Po	ional CT/IPEA/416)
			Wan Na	International filing date (da			Priority date (day/month)	
International application No. International filing da PCT/GB03/00803 24.02.2003					iyanono	.,	26.02.2002	•
Intern	ational	Patent	Classification (IPC) o	r both national classification and	IPC		<u> </u>	
			K47/38					
Appli								
AST	RAZE	NEC.	A AB et al.					
1.	This	interna	itional preliminary e	xamination report has been the applicant according to Ar	prepare	ed by this inte 5.	rnational Preliminary E	xamining
	Auuk	Jilly al	id is transmitted to	aro applicant deceraing to				
				-1 -60 shoots including this	ooyor	choot		
2.	This			al of 6 sheets, including this				
		This	eport is also accom	panied by ANNEXES, i.e. sh	heets o	f the description	on, claims and/or drawi	ngs which have ore this Authority
	been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total of sheets.							
	These armoxed correct a term of the second o							
			t-ine indication	s relating to the following iter	ms.			
3.	ınıs							
	j 	\boxtimes	Basis of the opinion	n				
	11 181	□	Priority Non-establishment	of opinion with regard to no	veltv. i	nventive step	and industrial applicabi	lity
	١١١		Lack of unity of inv			•		
	٧	⊠	Reasoned stateme	ent under Rule 66.2(a)(ii) with	h regar	d to novelty, i	nventive step or industr	ial applicability;
			citations and expla	nations supporting such stat	tement			
	VI Certain documents cited							
•	VII							
	VIII	ш	Certain observatio	115 Off the international application				
Date	e of sub	missio	n of the demand		Date o	f completion of t	this report	
22.08.2003			17.12	2003				
Nar	ne and	mailing	address of the intern	ational	Author	ized Officer		CONF. I BA
preliminary examining authority:				Teleph	one No. +49 89	2399-	September 1	
European Patent Office D-80298 Munich				•				
Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465						Bown with Brond		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB03/00803

	Rasis	of the	report
I-	Dasis	01 4110	

1.	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):				
	Description, Pages				
	1-38	as originally filed			
	Clair	ms, Numbers			
	1-20	· · · · · · · · · · · · · · · · · · ·			
	Drav	wings, Sheets			
	1/4-4	4/4 as originally filed			
2.	 With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. 				
	The	se elements were available or fumished to this Authority in the following language: , which is:			
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).			
		the language of publication of the international application (under Rule 48.3(b)).			
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).			
3.	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: 				
	\square contained in the international application in written form.				
		filed together with the international application in computer readable form.			
		furnished subsequently to this Authority in written form.			
		furnished subsequently to this Authority in computer readable form.			
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.			
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.			
4	4. The amendments have resulted in the cancellation of:				

☐ the description,

 \square the claims,

☐ the drawings,

pages: Nos.:

sheets:

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5.		been considered to go beyond the disclosure as filed (Hule 70.2(c)).			e amendments had not been made, since they have ed (Rule 70.2(c)).		
		(Any replacement sheet contain report.)	ning su	ich amendme	ents must be referred to under item 1 and annexed to this		
6.	Add	Additional observations, if necessary:					
11).	III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
	The	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- obvious), or to be industrially applicable have not been examined in respect of:					
		the entire international application,					
		claims Nos. 18, 19 (IA only)					
		because:					
	⊠	the said international application, or the said claims Nos. 18, 19 (IA only) relate to the following subject matter which does not require an international preliminary examination (specify):					
		see separate sheet					
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
2.	am	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:					
		- was the standard					
		the computer readable form ha	as not	been furnish	ed or does not comply with the Standard.		
٧	V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1	. Sta	Statement					
	No	ovelty (N)	Yes: No:	Claims Claims	1-20		
	inv	ventive step (IS)	Yes: No:	Claims Claims	1-20		
	Ind	dustrial applicability (IA)	Yes: No:	Claims Claims	1-17, 20 18, 19		
2	2. Ci	tations and explanations					

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see separate sheet



1. Section III

Claims 18 and 19 are directed to a method of treatment of the human/animal body by therapy. Such subject-matter is considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT, and therefore no opinion shall be formulated with respect to industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT). However an opinion shall be formulated with respect to novelty and inventive step based on the alleged effects of the compounds/compositions.

2. Section V

2.1 Cited Documents

The following documents (D) are referred to in this Opinion; the numbering will be adhered to in the rest of the procedure:

D1: WO 96/33980 A (ZENECA LTD; GIBSON KEITH HOPKINSON (GB)) 31 October 1996

D2: US-A-4 344 934 (MARTIN FREDERICK H ET AL) 17 August 1982

D3: US 2003/045537 A1 (LEE JAE-YEOL ET AL) 6 March 2003

Unless otherwise indicated reference is hereafter made to the passages cited in the Search Report.

2.2 The prior art

WO9633980: Discloses preparations of the claimed quinazoline derivative which are enteric coated with a coating of cellulose acetate phthalate, a water soluble cellulose.

US4344934: Discloses the use of water-soluble cellulose derivatives for increasing the bioavailability of poorly soluble drugs.

US2003045537A1: Mentions the fact that the low solubility, and consequently bioavailability, of the claimed molecule is a problem recognised in the art.

2.3 Art 33(2) PCT (Novelty)

The subject-matter of claims 1-20 of the present application meets the requirements of Article 33(2) PCT.

The coating of D1 is made with cellulose acetate phthalate, which is not an ester of a water-soluble cellulose ether as required by the present independent claims.

2.4 Art 33(3) PCT (Inventive step)

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EXAMINATION REPORT - SEPARATE SHEET

The subject-matter of claims 1-20 of the present application meets the requirements of Article 33(3) PCT.

Document D2 shows to the skilled person how the problem of low solubility/bioavailability of active principles could be solved, i.e. by using a water-soluble cellulose derivative like cellulose acetate phthalate (and a wetting agent). The document however is silent about the possibility of using the same derivative for solving the technical problem of reducing the precipitation rate of an active principle in general, let alone of the specific ones of the present application. The skilled person faced with the problem above would not therefore have considered D2, and in any case would have had no reason for combining it with the molecules of D1. Inventive step is therefore acknowledged.

2.5 Art 33(4) PCT (Industrial applicability)

As stated above, no opinion is given on the question of whether present claims 18 and 19 are industrially applicable since their patentability is inter alia dependent upon their formulation as well as upon national and regional laws and no unifying criteria is provided in this field by the PCT.